

Appendix A

Responsibilities for Roof Access

Steps	Responsible individual						
	Facility manager	Crafts person	Hazards Control S&H tech	Building coordinator	Experimenter	ES&H team	Supervisor of crafts person
1. Schedules preventative maintenance	I	S	—	R	I	S	I/A
2. Calls for the roof permit	—	R	A	A	I	S	S
3. Approves and determines scope of job	I	S	S	R	I	S	A
4. Contacts the Security Department, if necessary	—	—	—	R	—	—	—
5. Determines if roof permit is required	—	I	R	I	S	I	—
6. Checks operational status of roof	—	I	A	R	I	S	I
7. Accesses roof area of concern	—	R	A	A	I	S	I
8. Confirms hoods are clear	—	I	S	R	I	S	—
9. Contacts the HC technician*	—	I	—	R	—	S	—
10. Posts signs; informs operators	—	I	S	R	I	—	—
11. Informs crafts person of hazards associated with roof top work	—	I	S	R	I	—	—
12. Ensures hoods stay clear	—	—	S	S	R	—	—
13. Assures all parties have communicated	—	I	S	R	I	—	—
14. Verifies condition of room is safe	—	I	A	R	R	—	—
15. Determines appropriate PPE**	—	I	I	I	—	R	I
16. Signs roof permit	—	A/R	A/R	A/R	—	—	—

* HC, Hazards Control
 ** Personal protective equipment

A = Approves the activity
 I = Informed of necessary activity
 R = Responsible for the activity
 S = Provides support services for the activity

Appendix B

Roof Access Classification Criteria and Signs

Discipline	Type A	Type B	Type C
Health Physics	<ul style="list-style-type: none"> • External dose rates ≥ 5 mrem/hr or air concentrations exceeding 2 DAC/hr • Potential contamination levels exceeding those in Table 2-2 of the LLNL RCM 	<ul style="list-style-type: none"> • External or internal dose rates above background, but < 5 mrem/h 	<ul style="list-style-type: none"> • No radiation or contamination levels exceeding background
Industrial Hygiene	<ul style="list-style-type: none"> • Exposure greater than ceiling, STELs or integrated 8-h TWA PEL/TLVs • Exposure greater than IDLH or ERPG-2 • Facilities with special emergency evacuation procedures 	<ul style="list-style-type: none"> • Exposure less than PEL/TLVs, but may be a nuisance or mildly irritating • Exposures less than IDLH or ERPG-2 • Normal egress patterns followed in an emergency 	<ul style="list-style-type: none"> • No exposure above background levels
Industrial Safety	<ul style="list-style-type: none"> • Special industrial safety concerns such as unprotected sky- lights, unprotected openings, and slopes > 33 percent where conditions are IDLH • Restricted access during explosive testing activities* • Microwave/lasers* 	<ul style="list-style-type: none"> • Special industrial safety concerns such as unprotected skylights, unprotected openings, and slopes < 33 percent where conditions present a threat to health and safety • Restricted access during explosive testing activities* 	<ul style="list-style-type: none"> • No special industrial safety concerns other than routine safety requirements for working on elevated surfaces

DAC = Derived air concentration
 TWA = Time-weighted average
 PEL = Permissible exposure limit
 TLV = Threshold limit value
 IDLH = Immediately dangerous to life and health
 STEL = Short-term exposure limit
 ERPG = Emergency Response Planning Guideline
 RCM = Radiological Control Manual

* Requires evaluation by the ES&H team.